

Fig. 14.

-43 ATACTGGCTCAACCTCGGGAGCTCACACTCAGGCTGGCGGGCC

G17 GGG Glu Gin GLY Asn Asn AAC Ser G17 GGG CIG Ile ATC Asn Ser Leu Pro CCT Asp Thr Ser TCC Gla AAT Ile TCC Arg Agg ACA GTC Val Phe TCA CAG 11e ATC Phe TTC TCC Len Phe TTT TTT Phe TTT Asn Ala AAT GCT Glu GAG Lys Ser His Ala GCA Ser TCC ည္သ GCT Phe Ser Arg Ala GCT Ala Ala Len CIC Ser Ala Asn GCT AAT Thr Leu Lys Pro CTG AAG CCT Gln CAA Leu Tyr Tat Phe TTT Leu CAT Ala CTG Ser CTG Gly AGC G1y GGG Leu Ser Val AGC G1y GGA GIY GGG ACG Asn Thr Ala ညည် Pro Glu Ile Pro ATA CCC Leu Ala Val Leu Leu Leu Pro GAA Asp GAT Gln CAA Ser Phe TTC Gln CAG Thr Glu GAA His 617 660 Val Ile GTA ATT Lys Aaa Glu GAA Glu GAG Ile Pro CCA GTA His Ser CTG CTG Asp 11e ATT Val Glu Arg Leu Thr Thr Glu Asn Glu GAA Pro CCG TYL GAA Lys Pro ပ္သည Glu Lys Met GAG AAG ATG Leu CTG Asp GAT Arg Thr His Ile Thr Glu GAA Lys Aaa Lys AAG GCA GTG Lys AAA Leu Ala Ala GCA Pro CCG Cys TGC GTC Leu Leu Phe Ala GCC Ser Val CTG Leu TTG Lys AAA Ile ATC Leu Gln Asp Pro Ser Asn GIY GGA Pro CCC Cys Asp Asn Leu TGT GAT AAC TTA Leu TTG Leu Asn AAT Arg Aga TYL GTG Leu CTC 61y 660 Val cys TGC Asp GAT Lys AAT Asn Glu Pro Gly GGA 11e ATC Lys Aaa Thr Val GTT Len Arg CTG Tyr TAT Ser Thr Cys Asn Thr TGT AAC ACA Asn Gln Leu Lys Phe TTC Thr Gln Asn Thr TYL Thr GAA GAA Ser AGC Leu Gln Leu Ser Leu CTG Ala GCC Pro CCC Ser Glu Ile Lys Glu GAA Lys Ser Cys TGC Cys TGC Ile Ile ATC Ser Arg Aga Ser Ile ATC Ser Leu Glu Leu TCG CTG GAG CTA Leu CTG Glu GAA Leu CTG Ser Leu Ile TYL Cys TGC Cys TGC Leu Arg Glu Leu GAA CTA Tyr Leu : Ile Leu (ATT CTG Ala Arg GCC AGA Gln CAA Thr Asp GAT Ser His Ala GCT Ser TCG Ile Lys Lys Aaa Leu CTG Ser Pro Val GTC Ser Gly GGG Phe Ser 11e ATC Leu CTC Lys AAA Ser Leu Pro Val GTA Val Ser Ser Leu Ile Leu TTA Asn Phe TTC Glu Ser TYL Lea TIG Ala Arg Leu 617 660 Val AAT AGC ပ္ပပ္ပ Asn AAC Glu GAG Asn AAT CC CC CC Ile ATC Arg Phe TTT Asn Thr GAG Ala GCC Arg Glu GAA Leu Glu Thr Leu Arg CGA Arg Asn Leu Pro CCT GAA Asn GIY GGG GIY GGG Met ATG Thr Phe TTT Leu Lea Ser Thr Thr Pro Leu Thr ACG Met ATG Ser 25 151 -26 50 226 150 250 826 175 200 225 751 275 901 75 100 376 -1 76 125 601

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Arg Phe CGC TTC Glu Ile GIn CAA Leu Ala GCT Ser TYL Met ATG Glu Glu Asn Glu Leu Ser Gly Trp Asp Tyr Asp Tyr Gly Phe Cys Ser Pro Lys Thr Leu Gln Cys Ala Pro GAG GAG AAT GAA CTC AGT GGC TGG GAT TAT GAT TAT GGC TTC TGT TCA CCC AAG ACA CTC CAA TGT GCT CCA Thr Lys Phe Ala Lys GCT AAG Pro CCC Ser Tyr Ala Phe Leu Arg Val Leu Ile Trp Leu Ile TAT GCC TTC CTT AGG GTC CTG ATT TGG CTG ATT GIY Leu Tyr Leu Leu Leu Ile Ala Ser Val Asp GGG CTC TAC CTG CTC ATT GCC TCC GTG GAC TAC ACC CTG ACG GTT ATC ACC CTG GAA AGG TGG CAC ACC ATC ACC GTG Ala Val Leu Leu Thr Ser Arg Tyr Lys Leu Thr Val Cys Gly Ala Ala Gly TGC GGT GCA GCT GGC GIY Ile Ser Asn Tyr Met Lys Val Ser Ile Cys Leu Pro Met Asp GGT ATC AGC AAT TAC ATG AAG GTC AGC ATC TGC CTC CCC ATG GAT Cys Gly Gly Trp Leu Phe GGA GGA TGG CTC TTT Phe Val Val Ile TTC GTC GTC ATC Glu Leu Thr Ala Pro Asn Lys Asp Thr Lys Ile GAG CTG ACA GCT CCT AAC AAG GAC ACA AAA ATT The Lys Gly Gln Tyr Tyr Asn His Ala Ile Asp Trp Gln Thr Gly Ser Gly ACA AAA GGC CAG TAC TAT AAC CAC GCC ATA GAC TGG CAG ACA GGG AGT GGC Leu Asn Val Val Ala CTC AAC GTG GTG GCC Val Gln Leu Asp Gln Lys Leu Arg Leu Arg His Ala Ile Pro Ile Met Leu GTA CAG CTA GAC CAA AAG CTA AGA CTG AGG CAT GCC ATC CCA ATT ATG CTC GIY Cys Met TGC ATG GGC AAC CTG ACA GTC CTC TTT GTT Ser Ile Leu Ile TCC ATC TTA ATC Glu Asp Ile Met GAA GAT ATT ATG Ser Phe Ala Asp Phe TCC TTT GCA GAC TTT Gln Asn Pro CAA AAT CCA Val GTC Leu Cys Val Glu Leu Ser GAA CTC TCT Ala Thr Met Pro Leu Val GCC ACG ATG CCC CTT GTG Gln Val Tyr Ile CAA GTC TAC ATA Ala Phe Asn Pro TTC AAC CCC Tyr Phe I Cys Asn Leu TGT AAT CTC Leu Ala Ile Phe CTA GCC ATC TTT Val Phe Ala Ser GTG TTT GCC AGT Asp Ala GAT GCT Ser Ile ATC Leu Met CTC ATG CIG Arg Len CCA Pro Ile Ile Thr 325 350 1276 450 1426 500 1576 375 525 1651 400 425 475 1201 1351 1501

Fig. 1B.

Fig. 1C.

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Phe	Asn	Cys	Pro Gly CCA GGA	Leu TTA	FGCT TACT STTTG SCTT CCAT
Ala GCC	Ala	Cys TGC	Pro	Ala GCG	TACC TTAA SCAG SCAG SAAA SAAA
Ala GCT	Cys TGT	Gly	Phe TTC	Arg Ala AGA GCG	NTTG1
Ser	Ser	Phe TTC	Gly Phe 1	Pro	AGGEN CCTTC CCTA CCTA TCTA TCGC
Ile	Asn	Ser Arg Phe Gly Cys Cys AGC CGA TIC GGC TGC TGT	Asn Aat	Pro	CCACACACACACACACACACACACACACACACACACAC
Ala	Val	Ser	Lys Aaa	Ile ATA	CACTI CAATI CATAI CACCTI CACCTI CACCTI
Thr Cys Met Ala Pro Ile Ser Phe Phe Ala Ile Ser Ala Ala Phe Lys ACG TGC ATG GCG CCC ATC TCT TTC TTT GCC ATC TCG GCT GCC TTC AAA	Lys Ile Leu Leu Val Leu Phe Tyr Pro Val Asn Ser Cys Ala Asn Pro Phe AAA ATC TTA CTG GTC CTT TTT TAT CCT GTC AAT TCT TGT GCC AAT CCA TTT	Arg Asp Phe Leu Leu Leu Leu AGA GAT TTC CTT CTG CTG CTG	Cys TGC	His Cys Gln Gln Pro CAC TGT CAA CAG CCC	ITTTAAAAAGTGTTTTAGAAAATATTTATCCTTAGGCACTTCAGGAGAATTGTACCTGCTTCAGAGGAC SGAAGGTTTAAAAAGTTTTTATAGTAATTTTAGGCATAATTTTTTTGTTGAATTGTAATAGGAATTC FTTCATTTCAATCTTGTGATTTACATTGTAATCTCCAAATATTTTTTTGTTGAATTGAAAATTAA ATATATTCAAGAGATGCACTGTGCAGTGTGACTGCTAGCCTTGCATGGTAATAGAAGTTTCTTAGCCAT SGCACAGATGCAAACTGTTTACATCAGTGAATTCTATTAGCCAGCTCTATTCTAGAGACTTTTCCC SGCACAGATGCTGCATTTGTTTGGTTACAGAATTCTATTAGCCAGCC
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Ala GCG	Leu	Asp	Ala GCA	Val GTG	FTTAC TTGTC TTGTC ATGCZ ACTGZ CATGZ
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Phe TTC	Ser	Ala GCG	Lys AAG	Lys AAG	STTT FCAGG ATTT FAAA SGAGG SAAGG
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Ile	Thr	Ile ATC	Leu	Gln CAG	AATT CTTG TTTT CCT TCCT STCT
Leu	Ile	Ala	G1u GAG	Ser	ACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
11e ATC	Leu	TYL	Ala GCG	650 Lys Pro Ser Gln Ala Thr Leu Lys 026 AAG CCG TCC CAG GCT ACC CTG AAG	TAGCATTACAAATTGTGCCTAAATATGTTTGGCCTATAAGTTTCAGGCCTATAAGTTTTCAGGTCACTTGACATTTTAAGTTTCAGGTCTCTGACATTTTCAGGTCTCTGACATTTTTCAGGATAGTTTGATAAAATTCCAGAGATCTTCAAGTGCTTCACATTTCAAAAATTGACACTCGCTTAACTTTCCATCTGAAGGTTCTTGTTAATTTCTTGATAAGCTTTAGTTTTCGATGATTTTGGATGTTAGCTTAGCATCTTAGCTTAGCATGCTTACATGCTTAGCATGCTTACATGCTTAGCATGCTTAGCATGCTTACATGCTTAGCATGCTTAGCATGCTTACATGCTTAGCATGCTTAGCATGCTTACATGCTTAGCATGCTAGATGCTTAGATGATAGATGCTTAGATGATAGATGCTAGATGCTAGATGCTAGATGCTAGATGATAGATGCTAGATGATAGATGATAGATGATAGATA
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Fig. 2B.

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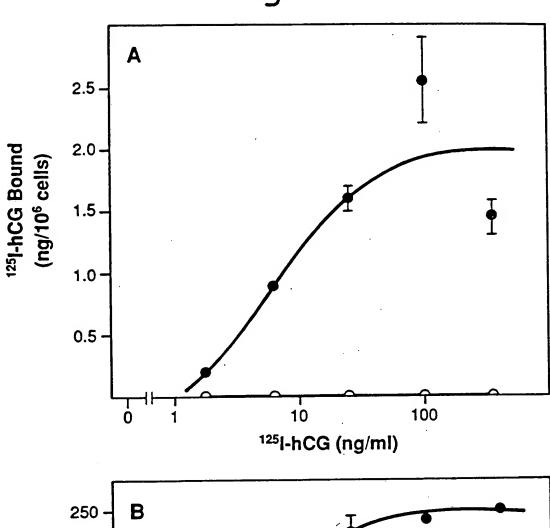
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345/413 621/674 ₹ S KILLVLFYPVNSCANPFLYAIFTKAFORDFLLLLSRFGMTIPAFFAKTSAVYNPVIYIMMNKOFRNCMVTTLCCGKYLALFWLAMSSTMYNPIIYCCLNHRFRSGFRLAFRCCPYILLNWIGYVNSGFNPLIY-CRSPDFRIAFOELLCLRR 0 0 0 NKTYRS SSAVNPLVYTLF LNVFVWI _ > z S > ۵ LH/CGR B-2AR RHO SKR

Fig. 3

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7/12 Fig.4.



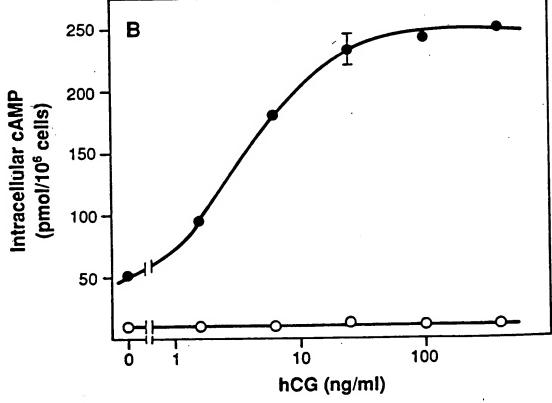
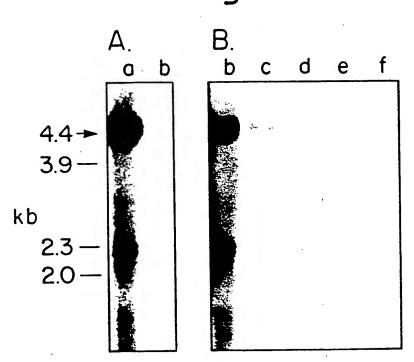


Fig. 5.



CTC GCC Ala 660 617 AAT TTA GAT GAA GCT ATC AGGAGCCTGG GGAATCTGTG GAAGTTTTCG CGCTGATGCA GAAAGAAAGT CGGTGAATGG AAC GGA G1y CCT TGG GAT CAT TGT CCA Pro 760 CCC Pro GCC Ala TTG ATA Ile Lea CT Fer cAG Gla AAC CTC TCT CTC ATA 11e AGC CAG AAA Lys CTA GAG CAC AAC ATT CCA AAG CAC AAG Leu CCA TTC GAC GTG Val CAA GAT I AAG ACT TTA AAA Lys TCT GAT GAG AGC AAC CCG Pro GTG GTT 660 614 TTG Pro TTT GGA Gly Cys AGT GAC TCC TTG Leu TGC AGG CTC 150 ASC ATT cha Cha CGC TAC ATT ATT GAA Glu AAC Agn CTC CTC Leu GAC 660 617 CAT TTC CCA CAG Gln TAC AAT Acc TAC ACA GAC TTT TTC CCT GAA Glu GGA TTT GTG GCA ACA CTC TAC orto Des AGT GCA Ala TTC AAG AAC GTT CTA CTA Val Leu Leu CTG Leu GAT GTC TTT AAC AAT CTT Asn Asn Leu TCC TGT GAA Glu ACA Thr TCA AGC CTT 666 617 ATG GCA Ala CTG AAT AGG Asn Arg 66**A** TTG GGA Gly TCA AGG Ser Arg GCC AGG Ala Arg SCC Ala GAA Glu ATG Met AAC Asn CAN Clu ATA TCC AAC TTG GAG Glu TCT CAA Glu TTA AAG Lys ATG Met CAC TTT TCT CGG Arg **GTC Va**l AAT AGG ATG Met TTC ATA ACT TCA SCC Ala CTG Let Sing Blue ATC CTG TGC CCC GTA GAT. GAA AAG CTG CAA Gla CAN Clu AAT CTC Let CTC CAA Clu TAT CTC TCC CTC CAT His GGA TTA CGG GAT AAA Lys GTG AAC AAG Lys ACC GAA Glu CCG NAA Pro Lys TTG AGA TCT AAC Cys GAC TTG GAT Asp AAG Lys GAT 66A 61y GAT AAG Lys TGG CTG ATT Ile GTC ATG GCC Met Ala Acc ATT CAG Gln AGG ATT GTC Val 55.3 5.3 AAC TTG I Ser CTG TAT GTT 666 GTC TTT ATC CCG GAT AGG Arg AGT GAT AGT AAG Lys TGT CAT CAC AAT GTT CTA CCA 2 2 2 3 3 3 3 AAG AAT Ash ATT GTC ATAAATAAGG GAC GCA Ala CCC Pro SP Cla ela Sla ည်ရှိ AAG Sige State Ska Slo CAG Gla GAG CGA GAA Glu TTA Les Les TTT Acg Arg AAT ACA AGT 5.53 5.53 CTT GTT ICT Ser Asn CAT TCT 1011 771 831 261 891 281 651 201 351 411 471 531 591 181 231 61 291 81

Fig. 6A.

	CCCC	CC AGA GTO FO AFG VA A TGTGAAA CAATCCTAC TAATCACCC		SC TCA GCT CCC St Set Ala Pro St TAAAAATCAA IN GACTAAATGG C CAGGGACCAT TAAACGGCACA	TCA Ser TAAA TAAA CGGGAACGGGAACGGGAACGGGAACGGGAACGGAACGGAACGGAACGGAACGGAACGGAACGGAACGGAACGGAACGGAACGGAACGGAACGGAACGGAACGGAACGAACGGAACGGAACGGAACGGAACGGAACGGAACGGAACGGAACGGAACGGAACGGAACGGAACGAACGGAACGGAACGGAACGGAACGGAACGGAACGGAACGGAACGGAACGGAACGGAACGGAACGAACGGAACGGAACGGAACGGAACGGAACGGAACGGAACGGAACGGAACGGAACGGAACGGAACGAACGGAACGGAACGGAACGAACGGAACGAACGGAACGAACGAACGAACGAACGAACGAACGAACGAACGAACGAACGAACGAACGAACGAACGAACGAACGAACGAACAAC	טון טב פֿעַצ	CAG CAG CAG CAG CAG CAG CAG CAG CAG CAG	CAC TGC TC His Cys Se TCC CAG AA TCC CAG AA C Ser Gln As GCAGGCCATG GCAGACTGAT AAACAAAGCA	Ser H	CGA AAG AGG Arg Lys Ser AAT CAT TCA Asn His Ser CTTCTGAAGA TCTCTGCATG	Arg I Arg I AAT Asn F CTTC TCTC	Ala Ala Control Contro	TTC CAT GCC THE His Ala TTC CCT CTT Al Pro Leu ATTATGACTC TCTCTCTGGG AATAATGGTA	TTC C Phe H GTC C Val P TTC	AAC TASD P CTT G Leu V Leu V	AAG CC AAG	CC CAC AAC TO THIS ASD PORT OF COMMENT OF CO	TARC TARC TARC TARC TARC TARC TARC TARC	ALA Ser Ser CTCA		Ser Ser AAT Asn GATCG GCACA	0~0
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	AAT	AGG Arg	GTG Val	ACA	CTC	TAC C	ATC 1	CAC A	Acc	TAT	TGC 1	660 61y	TGT C	ATC T Ile C	احرا	. – 61	S GT	GTG Val		GTG Val	C TTT GTG A Phe Val	GCC TTT GTG Ala Phe Val
>	AST	ro For	CTC	CTT	CTC	SCC C	ATG G	CTT A	TAT TYF	CTG 1	CAG E	Ser	TTG T	CCT T Pro L	AGC C	(2.60		GAC		GAC	ATC GAC Ile Asp	GAT ATC GAC Asp Ile Asp
-	CTC Leu	750	ATC	AGC	GTG /	AAA G	ATG A	TAC A	AGC 1	AGT P	ATC	66C 7	TTT G	ATC T			CCC Pro	TTC Phe		TTC Phe	CTC TTC Leu Phe	GCT CTC TTC Ala Leu Phe
2	TTC Phe	A Le	TTT	ACT	TGG /	61,7	TTG G	GTA T	ATG G Met V	GTC A	AGC G	GCC A	GCT G	CAT G			CGG Arg	CTC		CTC	CAG CTC Gln Leu	GTG CAG CTC Val Gln Leu
	GAA Glu	CTG	CAA Gln	ATG (GCT A	CAT G	ACA C	ATC A	ACC A	CAT A	TGG C	AGA 1	GAA A	CTA			ACC	ATC		ATC	GCC ATC Ala Ile	ACA GCC ATC Thr Ala Ile
	FF F	GTC	TCA	CTG	GAA Glu 1	AGT G	GCC A	TTT G	GTC T	ACT G	TTC P	TTT TP Phe P	GGC T	GCT G			Ala	GAT		GAT	TGT GAT	GGC TGT GAT
=	ACA Thr	CAA	TGG	GAC	ATT C	GCC A	TAT G	AAC T	CAC A	TAC C	CAG T	AGC C	AAG A Lys S	ACC A			CAT	ATC 11e		ATC 11e	GAC ATC	GIT GAC ATC
=	ATA I	CTT	CTA	TTG (Leu	TAC 7	ATC T	GGC A	ATA G	TGC A	CTC T	GAT C	GCT G	TTC G	GCC TAIA P			CTC	AAC		AAC	TGT AAC	ATG TGT AAC Met Cys Asn
4	CGG	CCC	GTG	ACT	CTA 7	AAA CLYS L	TAC A	CAA T	AGC C	ACA A	ACC A	CTC	GTC C	GTG G		1 6 41	CTG Leu	GTG		ACA GTG Thr Val	GTG	ACC ACA GTG Thr Thr Val
-	ACT	ATT	Ala	CTG (Leu	ATC CILL	AGC A Ser I	ATT A	TTT A	TGG T Trp P	ATA T	TTG A	GTC T	AGG GA	CTC A		<u>_</u>	ATC	AAC Asn		TAC AAC Tyr Asn	AAC Asn	GGG TAC AAC

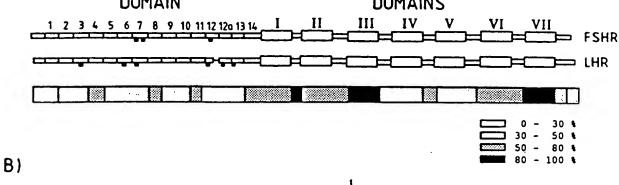
Fig. 6B.

Fig.7.

A)

EXTRACELLULAR DOMAIN

MEMBRANE SPANNING DOMAINS



RELSGSR PE.P D APDGA R PGPRAGLAR..... SLTYLHVK CHHWLCHCSNRVFL.CQDSKVTEIPTDLPRNAIELRFVLTKLR 1 SS R NAD LN S LL QNTK 41 SQA R LNEVV VIPKGSFAGFGDLEKIEISONDVLEVIEADVFSNLPKLHEIRIEKANNLL 43 91 EGT RKSC RT DT S SEFNFIEC LH T YINPEAFQNLPSLRYLLISNTGIKHLPAVHKIQSLQ.KVLLDIQDNINIH TIPG A Q MNN TKYG F VQSH T IS E KE IY K 141 IVARNSFMGLSFESVILWLSKNGIEEIHNCAFNGTQLDELNLSDNNNLEE S LQA S MHSGA T S SIQTILS S T SK LPNDVFQGASGPVILDISRTNVHSLPNHGLENLKKLRARSTYRLKKLPNL 10 241 E TS LV T R PKKE.....QNFSFSIFENFSKQC DKFVTLMEASLTYPSHCCAFANLKRQISELHPICNKSILRQQIDDMTQIG 13 EST RKA N TL SAIFEENELSGWDY GF S.PKTLQ A E DQRVSIIDDEPSYG...KGSDMMYNEFDYDLCNEVVTVTCSPKPDAFNPC TM I 332 LN L FLR 339 EDIMGYNILR<u>VLIWFISILAITGNTTVLVVLTT</u>SQYKLTVPR<u>FLMCNLAF</u> TM II TM III 382 FML SQ G Y H S **ADLCIGIYLLLIASVDIHTKSQYHNYAIDWQTGAGCDA AGFFTVFASELS** 389 TM IV 432 V Y V DQ LR IPI LG L STLI TM LV VYTLTAITIERWHTITHAMQLECKVQLRHAASVMVLGWTFAFAAALFPIF 439 TM V VE T V ILSI I 482 GIBSYMKVSIÇLPMDIDSPLSQLYVMALLVLNVLAFVVICGCYTHIYLTV 489 TM VI Q ELTAPNK 532 AF TN RNPTIVSSSSDTKIAKRMATLIFTDFLCMAPISFFAISASLKVPLITVSK 539 TM VII 582 S A Q LL R CKRR EL 589 AKILLVLFYPINSCANPFLYAIFTKNERRDFFILLSKFGCYEMQAQIYRT EF.. YTSNCKNGFPGASKP ATLKLSTVHCOOPI 631 639 ETSSATHNFHARKSHCSSAPRVTNSYVLVPLNHSSON..... 693 rat LH/CG receptor **PPRALTH** rat FSH receptor 639

Fig.8.

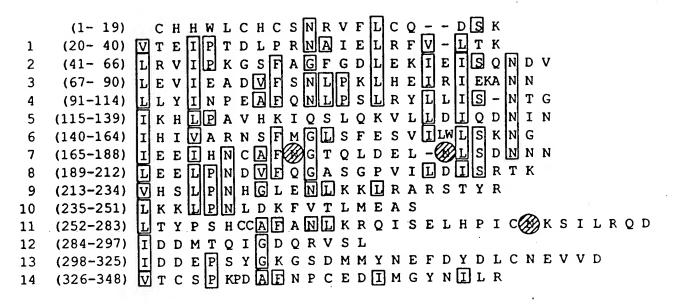
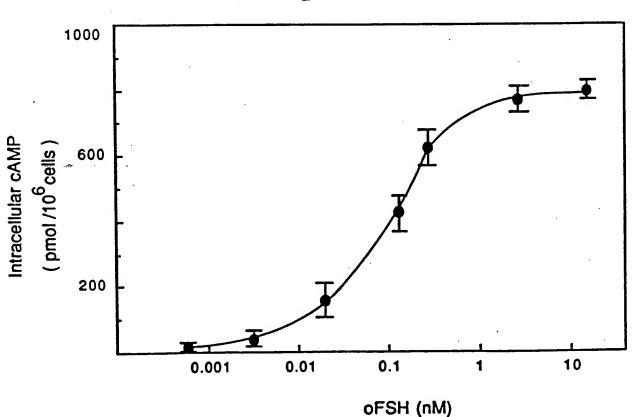


Fig.9.



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